

## I. Shell with three keels.

A. Sternum with a notch behind . . . . . *C. sonoriense*, p. 13.

B. Sternum not notched behind.

## 1. Jaws spotted.

a. Axillary and inguinal scutes separate. . . . . *C. cruentatum*, p. 13.b. Axillary and inguinal scutes joining each other . . . . . *C. triliratum*, p. 14.2. Jaws uniform yellowish . . . . . *C. albogulare*, p. 14.

## II. Shell with one keel or none.

A. Sternum with a notch behind.

1. Jaws spotted . . . . . *C. hirtipes*, p. 15.2. Jaws yellow . . . . . *C. integrum*, p. 16.

B. Sternum without a notch.

1. Jaws spotted . . . . . *C. effeldtii*, p. 16.

2. Jaws uniformly coloured.

a. A joint between posterior lobe and middle of sternum . . . . . *C. leucostomum*, p. 17.b. A straight suture between posterior lobe and middle of sternum; axillary and inguinal scutes separate . . . . . *C. brevigulare*, p. 17.c. A curved suture between posterior lobe and middle of sternum; axillary and inguinal scutes in contact . . . . . *C. cobanum*, p. 18.1. *Cinosternum sonoriense*.*Kinosternum sonoriense*, Leconte, Proc. Ac. N. Sc. Philad. 1854, p. 184.*Thyrosternum sonoriense*, Agass. Amer. Testud. p. 428, t. 5. figs. 8-11 (young).*Hab.* MEXICO, Tucson, Sonora (*Leconte*), Guadalupe, Cañon Sonora (*Agassiz*).

Shell with three keels, but the lateral are obsolete and scarcely to be traced, except on the two last costal scutes. Sternum emarginate behind. Head and neck black, above mottled and spotted with whitish, beneath whitish, varied in the same manner with dusky; jaws horn-colour, varied with black. The anterior joint of the sternum ligamentous, the posterior sutural, the hind lobe not entirely closing the box of the shell. Gular plate large, equilaterally triangular.

Of this species I have not seen any examples, and the characters are taken from Leconte's description. His specimen was 4.4 inches long. Gray considered his *K. punctatum*, based upon a very young example from East Florida, to be identical with the Sonora species. But this is very doubtful, and unfortunately cannot be determined from the type specimen, which is in a very bad state of preservation.

2. *Cinosternum cruentatum*. (Tabb. IX., X., XI.)

*Cinosternum cruentatum*, A. Dum. Cat. Méth. Rept. p. 16; and Arch. Mus. vi. p. 238, t. 16. figg. 1, 2; Dum. & Boc. Miss. Sc. Mex., Rept. p. 23; Bocourt, Journ. Zool. 1876, p. 398.

*Kinosternum mexicanum*, Leconte, Proc. Ac. N. Sc. Phil. 1854, p. 182.*Swanka scorpioides*, Gray, Suppl. Cat. Shield Rept. p. 67 (part.).